



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010465  
CERTIFICATION DATE: September 9, 2013  
DATE RECERTIFICATION DUE: March 8, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

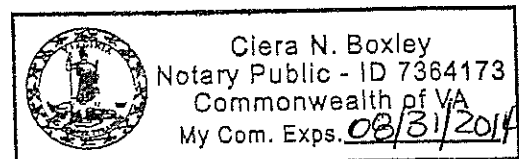
Melissa Kennedy  
Section Supervisor, Breath Alcohol

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 16<sup>th</sup> day of  
September, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 9/12/2013**

*HMS*  
*DBH*

**Instrument Serial Number: 010465**

**As of 12-Sep-13**

| <b>Maintenance</b> | <b>Certification</b> | <b>Technician</b> |   |
|--------------------|----------------------|-------------------|---|
| <b>Date</b>        | <b>Date</b>          | <b>Initials</b>   | <b>Remarks</b>  |
| 09-Sep-13          | 09-Sep-13            | HMS (18910)       | FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD. |
| 17-Apr-13          | 17-Apr-13            | DBH (21250)       | CERTIFIED.  |
| 04-Dec-12          | 04-Dec-12            | DBH (21250)       | FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD. |
| 24-May-12          | 24-May-12            | DBH (21250)       | CERTIFIED   |
| 11-May-12          | 07-Dec-11            | DBH (21250)       | REPLACED DRY GAS STANDARD.  |
| 07-Dec-11          | 07-Dec-11            | DBH (21250)       | CERTIFIED, REPLACED DRY GAS STANDARD.   |
| 22-Nov-11          | 20-Jun-11            | SED (24178)       | REESTABLISHED PROPER PHONE LINE CONNECTION.                                     |
| 20-Jun-11          | 20-Jun-11            | DBH (21250)       | REPLACED DRY GAS STANDARD, CERTIFIED  |
| 30-Dec-10          | 30-Dec-10            | DBH (21250)       | REPLACED PRINTER RIBBON, REPLACED DRY GAS STANDARD, CERTIFIED                   |
| 19-Jul-10          | 19-Jul-10            | DBH (21250)       | CERTIFIED   |
| 11-Jun-10          | 23-Feb-10            | DBH (21250)       | REPLACED DRY GAS STANDARD   |
| 09-Apr-10          | 23-Feb-10            | DBH (21250)       | MOVED INSTRUMENT TO A DIFFERENT LOCATION IN THE ROOM                            |
| 23-Feb-10          | 23-Feb-10            | DBH (21250)       | CERTIFIED   |
| 10-Nov-09          | 10-Nov-09            | NMJ (22392)       | REPLACED TANK TOP LID, CERTIFIED.   |
| 10-Apr-09          | 10-Apr-09            | RJP (22428)       | FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.                            |
| 18-Nov-08          | 18-Nov-08            | RJP (22428)       | CERTIFIED.  |
| 23-Oct-08          | 23-Oct-08            | NMJ (22392)       | CALIBRATED, CERTIFIED AND ACCEPTED.   |

KMS  
mk

## INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010465 Worksheet Start Date 9/9/2013

Location Virginia Beach Police Department, 2nd Precinct

Address 820 Virginia Beach Blvd, Virginia Beach, VA 23451

DFS Technician Heather Stanton License No. 18910

☐ Laboratory ☒ On-Site

### Site Specifications

Yes No

**1 Secured Environment:**

Location must not be accessible to the general public.

☒ ☐

**2 Environment free from contaminants**

☒ ☐

**3 Dedicated telephone line:**

The phone line should be used solely by the instrument.

☒ ☐

**4 Adequate Ventilation:**

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

**5 Stable temperature controls:**

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

**6 115VAC power source:**

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

**7 Room Condition:**

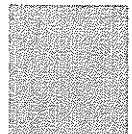
The site should be free of excessive moisture, heat and dust.

☒ ☐

Old serial no. New serial no.

E-Seek  
Keyboard  
Printer  
UPS

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



Maintenance (if any)  
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010465

Certification Date 9/9/2013

Instrument Barometer (mm HG) 765

Reference Barometer (mm HG) 765

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 |       |
|----------------------|-----------|------------|------------|----------|-------|
| 0.250                | 0.252     | 0.244      | 0.259      | Sample 2 | 0.253 |
| Precision            |           | sample min | sample max | Sample 3 | 0.253 |
| 0                    |           | 0.253      | 0.253      |          |       |

| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 |       |
|----------------------|-----------|------------|------------|----------|-------|
| 0.150                | 0.151     | 0.146      | 0.155      | Sample 2 | 0.152 |
| Precision            |           | sample min | sample max | Sample 3 | 0.152 |
| 0                    |           | 0.152      | 0.152      |          |       |

| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 |       |
|----------------------|-----------|------------|------------|----------|-------|
| 0.080                | 0.081     | 0.078      | 0.084      | Sample 2 | 0.080 |
| Precision            |           | sample min | sample max | Sample 3 | 0.081 |
| 0.001                |           | 0.080      | 0.081      |          |       |

| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 |       |
|----------------------|-----------|------------|------------|----------|-------|
| 0.020                | 0.020     | 0.017      | 0.023      | Sample 2 | 0.019 |
| Precision            |           | sample min | sample max | Sample 3 | 0.019 |
| 0                    |           | 0.019      | 0.019      |          |       |

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG316301-26

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 |       |
|----------------------|-----------|------------|------------|----------|-------|
| 0.100                | 0.101     | 0.097      | 0.104      | Sample 2 | 0.100 |
| Precision            |           | sample min | sample max | Sample 3 | 0.100 |
| 0                    |           | 0.100      | 0.100      |          |       |

DFS Technician

Heath W. Stork

Date

9/12/13

Issuing Analyst

Melissa Kennedy

Date

9/16/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2

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COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

|                   |               |
|-------------------|---------------|
| NAME OF ACCUSED   | NAME OF COURT |
| INSTRUMENT, TEST, | DFS           |

BREATH ANALYSIS

|                                       |                 |                     |
|---------------------------------------|-----------------|---------------------|
| SAMPLE EXAMINED AND TEST CONDUCTED BY |                 | AGENCY              |
| HTANTON, HEATHER, M                   |                 | DFS Central Lab     |
| DFS LICENSE NUMBER                    | LICENSE EXPIRES | DATE TEST CONDUCTED |
| 18910                                 | 10/01/2014      | 09/09/2013          |
| TEST EQUIPMENT NUMBER                 |                 |                     |
| 010465                                |                 |                     |

RESULTS: TIME SAMPLE TAKEN 14:35 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

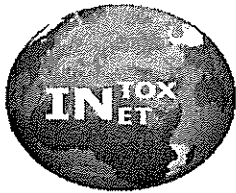
ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

|                      |
|----------------------|
| BREATH TEST OPERATOR |
|----------------------|

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 12 Sep 2013 at 08:27

*MS*  
*WSK*

## Test Results

Instrument Serial Number 010465

Test # 002359 Subject Test

Test Location 1 Department of  
Test Date 09 Sep 2013

Test Location 2 Forensic Science  
Test Time 14:29  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M  
License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 09 Sep 2013 End Time 14:37

Result Time 14:35

Result Date 09 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:29

Data Type BLK

Sample Value 0.000

Sample Time 14:30

Data Type CHK

Sample Value 0.101

Sample Time 14:31

Data Type BLK

Sample Value 0.000

Sample Time 14:32

Data Type SUBJ

Sample Value 0.000

Sample Time 14:33

Data Type BLK

Sample Value 0.000

Sample Time 14:34

Data Type SUBJ

Sample Value 0.000

Sample Time 14:35

Data Type BLK

Sample Value 0.000

Sample Time 14:36

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG219101-02

Standard Expiration Date 07/09/2014

Tank Pressure 159

Barometric Pressure 765 mmHg

Blow Sample Number 1 Blow Duration 3.55 sec

Blow Volume 1838 cc End-of-Blow Time 14:33

Blow Sample Number 2 Blow Duration 3.46 sec

Blow Volume 1716 cc End-of-Blow Time 14:35

Tamper Evident Stamp 9abbe381

Test Status Code 0

Test Status Success

AND

msk

**Intox EC/IR-II: Software Version**

*Department of Forensic Science*

Serial Number: 010465

System Date: 09/09/2013

System Time: 14:59 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

ANS  
Wsk

**Intox EC/IR-II: Calibration**

*Department of Forensic Science*

Serial Number: 010465      Test Number: 2360  
Test Date: 09/09/2013      Test Time: 15:01 EDT

Dry Gas Target: 0.101

Lot Number: 0651210013-06      Exp Date: 04/01/2014

Tank Pressure: 747 psi      Barometric Pressure: 765 mmHg  
System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| BLK  | 0.000  | 15:02 |
| CAL  | 0.101  | 15:02 |

Test Status: *Success*

Calibration CRC: FC317593



HMS  
NOK

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010465      Test Number: 2361  
Test Date: 09/09/2013      Test Time: 15:05 EDT

Technician Initials: HMS

Dry Gas Target: 0.252

Lot Number: 0651225015-04      Exp Date: 04/01/2014

Tank Pressure: 66 psi      Barometric Pressure: 765 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 15:06 |
| BLK  | 0.000  | 15:06 |
| CHK  | 0.253  | 15:07 |
| BLK  | 0.000  | 15:09 |
| CHK  | 0.253  | 15:09 |
| BLK  | 0.000  | 15:11 |
| CHK  | 0.253  | 15:12 |
| BLK  | 0.000  | 15:14 |

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS  
MSK

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010465      Test Number: 2362  
Test Date: 09/09/2013      Test Time: 15:15 EDT

Technician Initials: HMS

Dry Gas Target: 0.151

Lot Number: 07713150I3-04      Exp Date: 05/01/2015

Tank Pressure: 262 psi      Barometric Pressure: 765 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 15:16 |
| BLK  | 0.000  | 15:17 |
| CHK  | 0.152  | 15:17 |
| BLK  | 0.000  | 15:19 |
| CHK  | 0.152  | 15:19 |
| BLK  | 0.000  | 15:21 |
| CHK  | 0.152  | 15:22 |
| BLK  | 0.000  | 15:23 |

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS  
MSK

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010465      Test Number: 2363  
Test Date: 09/09/2013      Test Time: 15:24 EDT

Technician Initials: HMS

Dry Gas Target: 0.081

Lot Number: 0651208012-04      Exp Date: 04/01/2014

Tank Pressure: 325 psi      Barometric Pressure: 765 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 15:25 |
| BLK  | 0.000  | 15:26 |
| CHK  | 0.081  | 15:26 |
| BLK  | 0.000  | 15:28 |
| CHK  | 0.080  | 15:28 |
| BLK  | 0.000  | 15:30 |
| CHK  | 0.081  | 15:31 |
| BLK  | 0.000  | 15:32 |

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS  
NHL

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010465      Test Number: 2364  
Test Date: 09/09/2013      Test Time: 15:33 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0651202011-03      Exp Date: 04/01/2014  
Tank Pressure: 350 psi      Barometric Pressure: 765 mmHg  
System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 15:33 |
| BLK  | 0.000  | 15:34 |
| CHK  | 0.019  | 15:35 |
| BLK  | 0.000  | 15:36 |
| CHK  | 0.019  | 15:37 |
| BLK  | 0.000  | 15:38 |
| CHK  | 0.019  | 15:39 |
| BLK  | 0.000  | 15:40 |

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Handwritten marks: "HND" and "NHL" in the top right corner.

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010465      Test Number: 2365

Test Date: 09/09/2013      Test Time: 15:43 EDT

Dry Gas Target: 0.302

Lot Number: AG322702-02      Exp Date: 08/15/2015

Tank Pressure: 453 psi      Barometric Pressure: 765 mmHg

System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| BLK  | 0.000  | 15:43 |
| CHK  | 0.304  | 15:44 |
| BLK  | 0.000  | 15:46 |
| CHK  | 0.304  | 15:47 |
| BLK  | 0.000  | 15:48 |
| CHK  | 0.303  | 15:49 |

Test Status: *Success*

Calibration CRC: FC317593

HMS  
NSL

# Intox EC/IR-II: Accuracy Check

*Department of Forensic Science*

Serial Number: 010465      Test Number: 2366

Test Date: 09/09/2013      Test Time: 15:52 EDT

Dry Gas Target: 0.101

Lot Number: AG316301-26      Exp Date: 06/12/2015

Tank Pressure: 1120 psi      Barometric Pressure: 765 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| BLK  | 0.000  | 15:53 |
| CHK  | 0.100  | 15:54 |
| BLK  | 0.000  | 15:55 |
| CHK  | 0.100  | 15:56 |
| BLK  | 0.000  | 15:57 |
| CHK  | 0.100  | 15:58 |

Test Status: Success

Calibration CRC: FC317593

HMS  
MSK




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

|  |                          |
|--|--------------------------|
| NAME OF ACCUSED<br><br>INSTRUMENT, TEST, | NAME OF COURT<br><br>DFS |
|--|--------------------------|

BREATH ANALYSIS

|  |                                   |   |
|--|-----------------------------------|---|
| SAMPLE EXAMINED AND TEST CONDUCTED BY<br><br>STANTON, HEATHER, M |                                   | AGENCY<br><br>DFS Central Lab   |
| DFS LICENSE NUMBER<br><br>18910                                  | LICENSE EXPIRES<br><br>10/01/2014 | DATE TEST CONDUCTED<br><br>09/09/2013   |
| TEST EQUIPMENT NUMBER<br><br>010465                              |                                   |  |

RESULTS: TIME SAMPLE TAKEN 16:06 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

|                      |
|----------------------|
| BREATH TEST OPERATOR |
|----------------------|

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 12 Sep 2013 at 08:30

*Handwritten initials/signature*

## Test Results

Instrument Serial Number 010465

Test # 002367 Subject Test

Test Location 1 Department of  
Test Date 09 Sep 2013

Test Location 2 Forensic Science  
Test Time 15:59  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab  
Card Serial Number 118910  
Subject's Last Name INSTRUMENT  
Subject's Middle Initial  
Driver's License Number

Operator's First Name HEATHER

Operator's Middle Initial M  
License Number 18910

Effective Date 10/01/2012 Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Date of Birth 00/00/0000 Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 09 Sep 2013 End Time 16:07

Result Time 16:06

Result Date 09 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 16:00

Data Type BLK

Sample Value 0.000

Sample Time 16:00

Data Type CHK

Sample Value 0.100

Sample Time 16:01

Data Type BLK

Sample Value 0.000

Sample Time 16:03

Data Type SUBJ

Sample Value 0.000

Sample Time 16:03

Data Type BLK

Sample Value 0.000

Sample Time 16:04

Data Type SUBJ

Sample Value 0.000

Sample Time 16:06

Data Type BLK

Sample Value 0.000

Sample Time 16:07

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG316301-26

Standard Expiration Date 06/12/2015

Tank Pressure 1120

Barometric Pressure 765 mmHg

Blow Sample Number 1 Blow Duration 3.66 sec

Blow Volume 1805 cc End-of-Blow Time 16:03

Blow Sample Number 2 Blow Duration 3.52 sec

Blow Volume 1780 cc End-of-Blow Time 16:06

Tamper Evident Stamp 13bc1da6

Test Status Code 0

Test Status Success